

HISTORIC PROPERTY INVENTORY FORM

IDENTIFICATION SECTION

Field Site No. 104-B-1 OAHP No. Date Recorded 14-Feb-96
Site Name Historic Common
Field Recorder T. E. Marceau
Owner's Name Department of Energy, Richland Operations Office
Address P.O. Box 550
City/State/Zip Code Richland, WA 99352

Status

- ☒ Survey/Inventory
☐ National Register
☐ State Register
☐ Determined Eligible
☐ Determined Not Eligible
☐ Other (HABS, HAER, NHL)
☐ Local Designation

Photography

Photography Neg. No.
(Roll No. & Frame No.)
View of West Elevation
Date Dec-94

Classification ☐ District ☐ Site ☐ Building ☒ Structure ☐ Object
Distric Status ☐ NR ☐ SR ☐ LR ☐ INV
Contributing ☐ Non-Contributing ☐
District/Thematic Nomination Name

Description Section

Materials & Features/Structural Types

Building Type Industry
Plan Rectangular
Structural System Concrete Block
No. of Stories 1

Roof Type

☐ Gable ☐ Hip
☒ Flat ☐ Pyramidal
☐ Monitor ☐ Other (specify)
☐ Gambrel
☐ Shed

Cladding (exterior Wall Surfaces)

- ☐ Log
☐ Horizontal Wood Siding
Rustic/Drop ☐
Clapboard ☐
☐ Wood Shingle
☐ Board and Batten
☐ Vertical Board
☐ Asbestos/Asphalt
☐ Brick
☐ Stone
☐ Stucco
☐ Terra Cotta
☒ Concrete/Concrete Block
☐ Vinyl/Aluminum Siding
☐ Metal (specify)
☐ Other (specify)

Roof Material

☐ Wood Shingle
☐ Wood Shake
☐ Composition
☐ Slate
☒ Tar/Built-up
☐ Tile
☐ Metal (specify)
☐ Other (specify)
☐ Not visible

Foundation

☐ Log ☐ Concrete
☐ Post & Pier ☐ Block
☐ Stone ☒ Poured
☐ Brick ☐ Other (specify)
☐ Not visible

Integrity

(Include detailed description in
Description of Physical Appearance)

	Intact	Slight	Moderate	Extensive
Changes to plan	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Changes to windows	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Changes to original cladding	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Changes to interior	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

State of Washington, Department of Community Development

Office of Archaeology and Historic Preservation
111 21st Avenue Southwest, Post Office Box 48343
Olympia, Washington 98504-8343 (206)753-4011

LOCATION SECTION

Address 100-BC-1 Area
City/Town/County/Zip Code Richland, WA/Benton County/99352
Twp. 13N Range 25E Section 11 1/4 Section 11 1/4 Sec
Tax No./Parcel No. Acreage
Quadrangle or map name Riverland, 7.5 min series
UTM References Zone 11 Easting 297377 Northing 5167602
Plat/Block/Lot
Supplemental Map(s)



High Styles/Forms (Check one or more of the following)

<input type="checkbox"/> Greek Revival	<input type="checkbox"/> Spanish Colonial Revival/Mediterranean
<input type="checkbox"/> Gothic Revival	<input type="checkbox"/> Tudor Revival
<input type="checkbox"/> Italianate	<input type="checkbox"/> Craftsman/Arts & Crafts
<input type="checkbox"/> Second Empire	<input type="checkbox"/> Bungalow
<input type="checkbox"/> Romanesque Revival	<input type="checkbox"/> Prairie Style
<input type="checkbox"/> Stick Style	<input type="checkbox"/> Art Deco/Art Moderne
<input type="checkbox"/> Queen Anne	<input type="checkbox"/> Rustic Style
<input type="checkbox"/> Shingle Style	<input type="checkbox"/> International Style
<input type="checkbox"/> Colonial Revival	<input type="checkbox"/> Northwest Style
<input type="checkbox"/> Beaux Arts/Neoclassical	<input type="checkbox"/> Commercial Vernacular
<input type="checkbox"/> Chicago/Commercial Style	<input type="checkbox"/> Residential Vernacular (see below)
<input type="checkbox"/> American Foursquare	<input checked="" type="checkbox"/> Other (specify)
<input type="checkbox"/> Mission Revival	Industrial Vernacular

Vernacular House Types

<input type="checkbox"/> Gable Front	<input type="checkbox"/> Cross Gable
<input type="checkbox"/> Gable Front and Wing	<input type="checkbox"/> Pyramidal/Hipped
<input type="checkbox"/> Side Gable	<input type="checkbox"/> Other (specify)

NARRATIVE SECTION

Study Unit Themes (check one or more of the following)

<input type="checkbox"/> Agriculture	<input type="checkbox"/> Conservation	<input type="checkbox"/>
<input type="checkbox"/> Architecture/Landscape Architecture	<input type="checkbox"/> Education	<input type="checkbox"/>
<input type="checkbox"/> Arts	<input type="checkbox"/> Entertainment/Recreation	<input type="checkbox"/>
<input type="checkbox"/> Commerce	<input type="checkbox"/> Ethnic Heritage (specify) _____	<input type="checkbox"/>
<input type="checkbox"/> Communications	<input type="checkbox"/> Health/Medicine	<input type="checkbox"/>
<input type="checkbox"/> Community Planning/Development	<input type="checkbox"/> Manufacturing/Industry	<input checked="" type="checkbox"/> X
	<input type="checkbox"/> Military	<input checked="" type="checkbox"/> X

Statement of Significance

Date of Construction	<u>1949?</u>	Architect/Engineer/Builder	<u>General Electric Hanford Company/U.S. Atomic Energy Comr</u>
<input checked="" type="checkbox"/> X	In the opinion of the surveyor, this property appears to meet the criteria of the National Register of Historic Places.		
<input type="checkbox"/>	In the opinion of the surveyor, this property is located in a potential historic district (National and/or local).		

A pilot program for the separation and production of tritium was housed in the retrofitted 108-B Chemical Pump House. This project, code named the P-10 Plug Extraction Project, ran from Gerber notes that "tritium gas was to be a key component in hydrogen (thermonuclear or "Super") weapons then under top secret development." The tritium used in the first hydrogen bo Grounds on October 31, 1952, was produced at 108-B. The P-10 program was short-lived at Hanford, as Gerber observes, "the entire project seemed poised for growth when the tritium ir Savannah River Plant in 1952". The 108-B Building was demolished in 1984. 104-B-1 was used to store tritium recovered from irradiated lithium-aluminum target elements. It functioned This property is not associated with an important person (Criterion B), does not possess any distinctive architectural features or methods of construction (Criterion C), and does not qualify source of important information. However, 104-B-1 qualifies under Criterion A due to its association with the Cold War production of tritium. Therefore, it is the conclusion of the U.S. Dep eligible for inclusion on the National Register of Historic Places as a contributing property within the Hanford Site Historic District.

Description of Physical Appearance

The 104-B-1 Tritium Vault is a concrete block structure supported on a reinforced concrete foundation. It is 10 feet below grade and 10 feet above grade, measuring approximately 10 fe total area of approximately 130 square feet. The Tritium Vault is located in the 100-B exclusion area, north of the 105-B Reactor building. The structure is presently sealed and no entry tritium contamination.

Major Bibliographic References

Cote, Susan L., n.d., Hanford Buildings and Facilities 100 Areas, UNI-2780

Couto, M.M., J.H. Dunkirk, R.J. Landon, F.E. Meyer, 1994, "Pre-Existing" Conditions Survey of Hanford Site Facilities by Bechtel Hanford, Inc., BHI-00221, Rev.

Gerber, Michele S., 1993, Summary of 100-B/C Reactor Operations and Resultant Wastes, Hanford Site, WHC-SD-EN-RPT-004, Rev. 0

Hanford Site Drawing: H-1-1755

Reed, George G., Jr., 1952, History of the P-10 Project as of February 1, 1951 (Declassified with Deletions)

Wahlen, R.K., 1989, History of 100-B Area, WHC-EP-0273

Politics/Government/Law
Religion
Science & Engineering
Social Movements/Organizations
Transportation
Other (specify) Cold War Era
Study Unit Sub-Theme(s) (specify)
Chemical Separation/Byproduct (Tritium)

mission

ction Project, ran from February 1949 to March 1952.
i the first hydrogen bomb tested at the Pacific Proving
wth when the tritium mission was transferred to the new
ements. It functioned as an interim storage facility.
and does not qualify under Criterion D as the principal
lusion of the U.S. Department of Energy that 104-B-1 is

g approximately 10 feet wide by 13 feet long with a
' sealed and no entry is permitted due to low-level

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